

a bramble stick; the larvæ were five in number, placed at about half a line apart, without any separation constructed between them, in fact exactly agreeing with the description which I published of *Hylæus signatus* five years ago; but, as far as I know, it was Mr. Thwaites who first proved the *Hylæi* to be working bees, and the subsequent observations of myself, and also of Mr. S. Saunders, have confirmed his observations, made in 1841. The species which I have bred this year is my own, *Hylæus hyalinatus*.

XIV. *Descriptions of some new Species of the Coleopterous Family Paussidæ, with a Synopsis of the Family.* By J. O. WESTWOOD, Esq., F.L.S.

[Read 2nd August, 1852.]

HAVING already on several occasions brought under the notice of the Entomological Society the very remarkable insects composing the family *Paussidæ*, I should have hesitated in again doing so were not the additions which I purpose describing in the present paper of considerable importance. The description of a single species, and that not even a novelty in science, may, it is true, be rendered most worthy of attention when treated by a Reaumur, a Lyonnnet or an Audouin, but the zoological, technical descriptions of a few isolated species can scarcely expect to obtain notice. In the present instance, however, although so short a time has elapsed since I published a revised and extensively-illustrated Monograph of the *Paussidæ* in the second volume of my "Arcana Entomologica" (1845, containing fifty-three species), together with the addition of ten new species subsequently described in our Transactions and Proceedings, and seventeen new species in the Proceedings of the Linnæan Society, I am able by the exertions of several friends to extend the limits of the family still further; and now that the natural habits of the insects have been discovered, there is likely—to use a very poor pun—to be no pause in the discovery of new species of *Paussidæ*. Major Champion, for instance, discovered several specimens belonging to two distinct new species under a single stone at Hong Kong, and Mr. Benson found so many specimens of *P. Parrianns* in their natural haunts at the Cape of Good Hope, that he was able at leisure to watch their habits in detail. (See Trans. Ent. Soc. vol. v. p. 30.)

The species recently described, and those now for the first time noticed, form portions of collections made by different collectors in various parts of Asia, Africa and Australia. Of these a consi-

derable number from the Port Natal country were communicated to me by the late A. Melly, Esq., who received them from the Royal Museum of Berlin. Others from the same locality were contained in the fine collection recently sold by auction in this country, and four of the new species, also from Natal, described in the present paper, have been communicated to me recently by Herr Dohrn, the worthy President of the Entomological Society of Stettin. Among the insects from Angola recently arrived in Paris were also several fine species now in the collection of the Marquis de la Ferté-Senectere, who kindly forwarded them to me for description. M. Deyrolle has also obtained another species from the same country, and three species have been received from Eastern Africa (Abyssinia and Nubia). Several fine species from South Australia have been sent me by C. A. Wilson, Esq., one of them being the largest insect in the family, and which I have inscribed with his name. I have also given descriptions of three species collected at Hong Kong by J. C. Bowring, Esq., and Major Champion, now deposited in the British Museum. The fine series of species formed in India by Captain Boys, several of which were described by him in the *Journal of the Asiatic Society of Bengal*, was also placed in my hands for examination by that gentleman previous to his again quitting England for India, by which means I was able to determine the species. Dr. Bacon's Collection also, which contained several species described by Mr. Benson in M'Clelland's *Calcutta Journal of Natural History* for 1845, was also submitted to me for examination previous to its sale to M. Deyrolle. Captain Boys' collection was sold by auction, but his types were purchased by various English collectors, chiefly Messrs. Melly, Hope and Saunders.

In addition to the recent notes on the habits of these insects, which I have published in the "*Arcana Entomologica*" and *Transactions of the Entomological Society*, those of Dr. Benson published in our *Transactions*, vol. v. p. 30, and those of Herr Guenzius, published in the Stettin "*Zeitung*," 1851, p. 227, of which a translation was given by Mr. Douglas in our "*Proceedings*," 1851, p. 105, Mr. Bowring has favoured me with the following particulars relative to the captures of the three species near Hong Kong, which correspond very nearly with what has been elsewhere observed of the habits of these insects, leading to the conclusion that the number of the species is very much greater than has hitherto been supposed, the rarity of the specimens (and it is a remarkable circumstance that at least half the species are known only by single individuals) being caused by their obscure underground habits.

Mr. Bowring observes that "all the three species were originally discovered by Major Champion (a very zealous entomologist, who has formed considerable collections both in the neighbourhood of Hong Kong and in Ceylon) on Victoria Peak, under stones in the nests of a minute species of ant, the whole being found in one morning, two specimens of one and three of another species being taken under the same stone; and on a subsequent occasion, while entomologizing on the same mountain with that gentleman, I was fortunate enough to capture a pair of the species named by him *P. sinicus*, also in an ant's nest. Major Champion had previously mentioned to me that he thought he had observed something like crepitation in this insect; and in the present instance this was confirmed, for on the capture of one of the specimens I distinctly heard a noise resembling the ticking of a watch, and my finger was immediately discoloured as by the discharge of a *Brachinus*. Considering the locality where these insects are found, it does not appear probable that they are lignivorous, as has been supposed, and further observation will no doubt prove their affinity to the carnivorous *Carabidæ*. The pair I took I kept alive for some time, but without discovering their proper food. I am indebted to the liberality of Major Champion for specimens of the remaining two species, of which one is unique."

The opportunities recently afforded me of determining the synonymy of several of the species, have induced me to give a complete list of the family, thereby showing the great increase which it has undergone since the last summary which I published in 1845. The number of species now known is not less than eighty-five, one or two only of which are doubtful. Of these six are now for the first time described.

The following Synopsis of the Family embraces all the Species described up to the present time (November, 1852).

Family PAUSSIDÆ, Westw.

Genus 1. CERAPTERUS, Swederus.

Subgenus 1. CERAPTERUS proper.

1. *Cerapterus latipes*, Swederus, Kongl. Vet. t. 9, 1788, p. 203, pl. 6, f. 1; Westw. Linn. T. t. 16, p. 669,—t. 18, p. 382; Arc. Ent. 2, p. 6, pl. 49, f. 1; Mac L. Ann. South Afr. pl. 4, fig. inf. sinistr. Ceylon.
2. *Cerapterus Horsfieldii*, Westw. Linn. T. 16, p. 672,—18, p. 583; Arc. Ent. 2, p. 7, pl. 49, f. 2; Mac L. Ann. So. Afr. pl. 4, fig. sup. dext. Java.

3. *Cerapterus quadrimaculatus*, Westw. Linn. T. 18, p. 583; Arc. Ent. 2, p. 7, pl. 49, f. 3. Java.

Subgenus 2. ORTHOPTERUS, Westw. Ent. Mag.

4. *Cerapterus (Orthopterus) Smithii*, Mac Leay, Ann. So. Afr. p. 74, pl. 4, fig. sup. sinistr.; Westw. Linn. T. 18, p. 583; Ent. Mag. 5, p. 502; Arc. Ent. 2, p. 7, pl. 49, f. 4. South Africa.
5. *Cerapterus (Orthopterus) concolor*. Westw. Proc. Linn. S. 19 June, 1849. Vix *C. Smithii* var. Natal.
6. *Cerapterus (Orthopterus) La-Fertei*, Westw. Proc. Linn. S. 19 June, 1849. Gambia.

Subgenus 3. ARTHROPTERUS, Mac Leay.

7. *Cerapterus (Arthropterus) Wilsoni*, Westw. Proc. Linn. S. 19 June, 1849. Adelaide.
8. *Cerapterus (Arthropterus) Mac-Leayi*, Donovan, Ins. N. Holl. pl. 3; Mac L. Ann. So. Afr. pl. 4, fig. inf. dext.; Westw. Linn. T. 16, p. 672,—18, p. 384; Ent. Mag. 5, p. 503; Arc. Ent. 2, p. 8, pl. 50, f. 4. New Holland.
9. *Cerapterus (Arthropterus) parallelocerus*, Westw. Proc. Linn. Soc. 5 Nov. 1850, and in Annals Nat. Hist. 7, p. 491 (1851). Australasia.
10. *Cerapterus (Arthropterus) brevis*, Westw. Proceed. Linn. Soc. 5 Nov. 1850, and in Annals Nat. Hist. 7, p. 491 (1851). Australasia.
11. *Cerapterus (Arthropterus) Hopii*, Westw. Arc. Ent. 2, p. 8, pl. 50, f. 5. New Holland, Port Philip, &c.
12. *Cerapterus (Arthropterus) subsulcatus*, Westw. Proc. Linn. S. 19 June, 1849. King George's Sound.
13. *Cerapterus (Arthropterus) denudatus*, Westw. Proc. Linn. S. 19 June, 1849. New Holland, near River Mundarra.

Subgenus 4. PHYMATOPTERUS, Westw. Ent. Mag.

14. *Cerapterus (Phymatopterus) piceus*, Westw. Ent. Mag. 5, p. 503; Linn. Tr. 18, p. 584; Arc. Ent. 2, p. 9, pl. 50, f. 3.
Cerapterus Mac-Leayi, Westw. Trans. Ent. Soc. 2, p. 95, pl. 10, f. 7. New Holland.

Subgenus 5. HOMOPTERUS, Westw.

15. *Cerapterus (Homopterus) Brasiliensis*, Westw. Linn. T. 18, pl.

38, f. C. ; Arc. Ent. 2, p. 9, pl. 50, f. 2. Corcovado Mountain, near Rio Janeiro.

Subgenus 6. PLEUROPTERUS, Westw.

16. *Cerapterus (Pleuropterus) Westermanni*, Westw. Arc. Ent. 2, p. 9, pl. 50, f. 1. Java, Ceylon.
17. *Cerapterus (Pleuropterus) alternans*, Westw. Proc. Linn. S. 19 June, 1849. Mozambique and Natal.
18. *Cerapterus (Pleuropterus) hastatus*, Westw. Proc. Linn. Soc. 19 June, 1849. Mozambique.

Genus 2. CERATODERUS, Westw. Proc. Linn. S. 1 June, 1841; Trans. Ent. Soc. 5, p. 23.

19. (1.) *Ceratoderus bifasciatus*, Kollar in Ann. Wien. Mus. 1826, t. 31, f. 7a, b (*Paussus b.*) Westw. Trans. Ent. Soc. ii. 91, pl. 10, fig. 3; Proc. Linn. S. 1 June, 1841; Arc. Ent. 2, p. 37, pl. 58, f. 1. Ind. Orient.

Genus 3. MERISMODERUS, Westw.

20. (1.) *Merismoderus Bensoni*, Westw. Trans. Ent. Soc. vol. 5, p. 23, pl. 2, f. 2; Cab. Orient. Ent. p. 84, pl. 41, f. 4. Ind. Orient.

Genus 4. PENTAPLATARTHUS, Westw. Linn. Trans. v. 16.

21. (1.) *Pentaplatarthrus Paussoides*, Westw. Trans. Linn. S. 16, pl. 33, f. 1—14; Arc. Ent. pl. 2, p. 38, pl. 58, f. 2.
Var. *Pentaplatarthrus Natalensis*, Mus. Berol. South Africa, Natal.

Genus 5. LEBIODERUS, Westw. Trans. Ent. Soc. v. ii.

22. (1.) *Lebioderus Gorii*, Westw. Trans. Ent. Soc. ii. pl. 9, f. 8; Arc. Ent. 2, p. 39, pl. 58, f. 3. Java.

Genus 6. HYLOTORUS, Dalm.

23. (1.) *Hylotorus bucephalus*, Gyllenhal in Sch. Syn. Ins. 1, p. 3, App. p. 15, pl. 6, fig. 2; Dalm. Anal. Ent. p. 103; Westw. Trans. Linn. Soc. 10, p. 654; Arc. Ent. 2, p. 40, pl. 58, f. 4. Sierra Leone.

Genus 7. PLATYRHOPALUS, Westw. Trans. Linn. S. v. 16.

24. (1.) *Platyrhopalus denticornis*, Donovan. Ins. Ind. pl. 5, f. 1 (*Paussus d.*); Westw. Trans. L. S. v. 16, p. 657, tab.

33, f. 43—48,—v. 19, p. 50; Arc. Ent. 2, p. 77, pl. 68, f. 1; Burmeister, in Guér. Mag. Zool. 1841, Ins. pl. 76, f. 2. Ind. Orient.

25. (2.) *Platyrhopalus Westwoodii*, Saunders in Trans. Ent. Soc. ii. 84, pl. 10, fig. 5; Westw. in Trans. Linn. Soc. 19, p. 51; Arc. Ent. 2, p. 78, pl. 68, f. 2. Ind. Orient.

26. (3.) *Platyrhopalus intermedius*, Benson in M'Clelland's Calcutta Journ. Nat. Hist. 1845; Westw. Trans. Ent. Soc. 5, p. 25. Ind. Orient.

27. (4.) *Platyrhopalus angustus*, Westw. Arc. Ent. 2, p. 78, pl. 68, f. 3; Boys in Journ. Asiat. Soc. Bengal. n. ser. n. 54, sp. 2.

Platyrh. suturalis, Westw. Arc. Ent. 2, p. 161, and see p. 190, note, pl. 88, f. 1, 1a. Ind. Orient.

28. (5.) *Platyrhopalus acutidens*, Westw. Trans. Linn. Soc. 16, p. 66, pl. 33, fig. 50—19, p. 51; Arc. Ent. 2, p. 79. Ind. Orient.

29. (6.) *Platyrhopalus unicolor*, Westw. Trans. Linn. Soc. 16, p. 659; Arc. Ent. ii. p. 79.

Paussus denticornis, Megerle, Ill. Mag. 3, p. 113, not.; Gyllenhal in Schönh. Syn. Ins. 1, part iii. App. 14, tab. 6, f. 1,—p. 19, No. 5.

An var. *Pl. denticornis*, Donovan?
Ind. Orient.

30. (7.) *Platyrhopalus Mellii*, Westw. Trans. Linn. S. 16, p. 685; Trans. Ent. Soc. 2, pl. 10, f. 4; Arc. Ent. 2, p. 162, pl. 88, f. 2; Guérin, Icon. R. An. Ins. pl. 40, f. 11. Malabar.

31. (8.) *Platyrhopalus aplustrifer*, Westw. Trans. Linn. Soc. 16, p. 664, pl. 33, f. 51; Arc. Ent. 2, p. 163, pl. 88, f. 3. Bengal.

Genus 8. PAUSSUS, Linn.

Sect. A. Prothorax quasi bipartitus.

Subsect. a. Antennarum clava postice haud excavata.

32. (1.) *Paussus microcephalus*, Linnæus, Dissert. big. Ins. tab. ann. f. 6—10; Afzelius, Trans. Lin. Soc. vol. iv. pl. 22, f. 1—5; Westw. Trans. Linn. Soc. 16, p. 631, pl. 33, f. 21; Arc. Ent. 2, p. 169, pl. 88, f. 4. Africa Occid. tropic.

33. (2.) *Paussus Jousselinii*, Guérin-Ménéville, *Revue Zool.*, No. 2, p. 21. Rangoon.
34. (3.) *Paussus Linnæi*, Westw. *Trans. Linn. Soc.* 16, p. 634, pl. 33, fig. 22—24; *Arc. Ent.* 2, p. 170, pl. 89, f. 3. —?
35. (4.) *Paussus Burmeisteri*, Westw. *Trans. Ent. Soc.* ii. p. 86, pl. 9, f. 3; *Arc. Ent.* 2, p. 171, pl. 89, f. 2. Cap. Bon. Spei.
36. (5.) *Paussus rufitarsis*, Westw. *Trans. Linn. Soc.* 16, p. 638, pl. 33, f. 25—27; *Arc. Ent.* 2, p. 172, pl. 89, f. 4.
Paussus Baconis, Benson in McClelland's *Calcutta Journ. of Nat. Hist.* 1845, n. 1; Westw. in *Trans. Ent. Soc.* 5, p. 24. Ind. Orient.
37. (6.) *Paussus pilicornis*, Donovan, *Ins. Ind.* pl. 5, f. 4; Westw. *Trans. Linn. Soc.* 16, p. 643, pl. 33, f. 34; *Arc. Ent.* 2, p. 173, pl. 89, f. 1. Bengal.
38. (7.) *Paussus Sinicus* (Champion, MS.), Westw. *Proc. Linn. Soc.* 19 June, 1849. Hong Kong.
39. (8.) *Paussus granulatus*, Westw. *Proc. Linn. Soc.* 19 June, 1849. Natal.
40. (9.) *Paussus Humboldtii* (Dohrn, MS.), n. s.

P. prothorace bipartito, antennarum clava postice haud excavata, piceus, elytris metasterno et ventre castaneis; nitidus, capite lævi, vertice in tuberculum crassum conicum, apice obtusum producto, antennarum clava crassa, ovali, glabra, basi oblique truncata et supra in cornu breve conicum paullo curvatum sensim producta, disco supra et infra convexo, apice rotundato, margine antico acuto, postico vero rotundato; palpis maxillaribus articulis 2, 3 et 4 sensim magnitudine decrescentibus; labialibus filiformibus gracilibus, articulo ultimo longissimo; prothorace capite vix longiori sed evidenter latiori; in partibus duabus magnitudine et latitudine fere æqualibus diviso, partis anticæ margine antico fere recto, angulis lateralibus rotundatis, lateribusque obliquis, disco transversim elevato et in medio paullo depresso, fossula media transversa profunda, partis posticæ lateribus rotundatis, disco in medio longitudinaliter subdepresso; elytris latis, vage punctatis et breviter luteo-parum setosis; pedibus mediocribus, tibiis compressis; podice plano, margine tenui elevato.

Long. corp. lin. 5.

Habitat in Natalia. In Mus. Dohrn.

41. (10.) *Paussus Turcicus*, Fridvaldszky in Hungar. Trans. v. 2 (1835), pl. 6, f. 5; Westw. Trans. Ent. Soc. 2, p. 91; Arc. Ent. 2, p. 174, pl. 88, f. 5. Turkey, Balkan Mountains.

Subsect. b. Antennarum clava postice excavata.

Divis.* Species Asiaticæ.

42. (11.) *Paussus tibialis*, Westw. Trans. Linn. Soc. 19, p. 47; Arc. Ent. 2, p. 174, pl. 90, f. 1. Bengal.
43. (12.) *Paussus fulvus*, Westw. Trans. Linn. Soc. 19, p. 47; Arc. Ent. 2, p. 175, pl. 90, f. 3. Ind. Orient.
44. (13.) *Paussus Stevensianus*, Westw. in Trans. Linn. Soc. 19, p. 48; Arc. Ent. 2, p. 176, pl. 90, f. 2. Ind. Orient.
45. (14.) *Paussus hystrix* (Champ. MS.), Westw. in Proc. Linn. Soc. 19 June, 1849. Hong Kong.
46. (15.) *Paussus Boysii*, Westw. Arc. Ent. 2, p. 177, pl. 92, f. 2, and pl. 90, f. 6.
Paussus, No. 6, Boys in Journ. Asiat. Soc. Bengal. N. S. No. 54, p. 433, tab. ann. f. 6. Ind. Orient.
47. (16.) *Paussus denticulatus*, Westw. Arc. Ent. 2, p. 179, pl. 92, f. 1, and pl. 90, f. 17.
Paussus, No. 1, Boys in Journ. Asiat. Soc. Bengal, N. S. No. 54, p. 426, tab. ann. f. 1. Ind. Orient.
48. (17.) *Paussus Bowringii* (Champ. MS.), Westw. in Proc. Linn. Soc. June 19, 1849. Hong Kong.
49. (18.) *Paussus politus*, Westw. in Proc. Linn. Soc. June 19, 1849. Ind. Orient.
50. (19.) *Paussus Nauceras*, Benson in M'Clelland's Calcutta Journal, Nat. Hist. 1845; Westw. in Trans. Ent. Soc. 5, p. 25. Ind. Orient.
51. (20.) *Paussus phloioiphorus*, Benson in M'Clelland's Calcutta Journal, Nat. Hist. 1845; West. in Trans. Ent. Soc. 5, p. 25. Ind. Orient.
52. (21.) *Paussus Jerdani*, (Hope, MS.) Westw. Trans. Ent. Soc. 5, p. 26, pl. 2, f. 1; Cab. Orient. Ent. p. 84, pl. 41, f. 5. Ind. Orient.
53. (22.) *Paussus thoracicus*, Donovan, Ins. Ind. pl. 4, fig. 2; Westw. Trans. Linn. Soc. 16, p. 640, pl. 33, f. 28—30; Arc. Ent. 2, p. 180, pl. 90, f. 4.

Paussus trigonicornis, Latreille, Gen. Crust. &c. iii. p. 3, pl. 11, f. 8. Ind. Orient.

54. (23.) *Paussus Fichtelii*, Donovan, Ins. Ind. pl. 4, f. 3; Westw. Trans. Linn. Soc. 16, p. 641, pl. 33, f. 31—33; Arc. Ent. 2, p. 181, pl. 90, f. 5, 8, 9; Saunders in Trans. Ent. Soc. ii. p. 83, pl. 9, f. 1; Boys in Journ. of Asiat. Soc. Bengal. N. S. No. 54, p. 429 and tab. ann. fig. 4 and 5. Ind. Orient.

Divis. ** Species Africanæ.

55. (24.) *Paussus excavatus*, Westw. Trans. Linn. Soc. 16, p. 637, pl. 33, f. 60—61; Arc. Ent. 2, p. 182, pl. 91, f. 2.
Paussus crepitans, Dupont, MS. Senegal.

56. (25.) *Paussus Audouinii*, Westw. n. sp.

P. prothorace subbipartito, antennarum clava postice excavata; totus piceus, sublævis, parum nitidus, punctis minutissimis setulosus vagis; capite subquadrato, antice in medio angulato-emarginato, vertice convexo, punctis duobus profundis inter partem anticam oculorum, inter se et oculos æquidistantibus; antennarum clava capite majori, oblonga, apice rotundato, fere plana, margine postico parum crassiori oblique excavato, excavatione in fossulas sex divisa, margine supero-postico recto, infero-postico parum sinuato, disco punctatissimo; pronoti parte antica capite e quarta parte latiori, lateribus recte angulatis, disco postice elevato, in medio autem impresso; parte postica e præcedenti fossula profunda setosa separata, angustiori, capite fere æquali; breviter cordato-truncata, in medio profunde impressa, lateribus in discum angulato-elevatis, medio postice in lobos duos ovaes elevato; elytris pronoti parte antica latioribus, postice sensim paullo latioribus, apice recte truncatis, podice lævi plano, margine omni tenui elevato luteo-setoso; pedibus latis, valde compressis, tibiis fere triangularibus, palpis maxillaribus articulo 2do ovato compresso; corpore infra nigro, metasterno et ventre rufis, hujus segmento ultimo nigro.

Long. corp. lin. 3.

Habitat in Benguela Africæ occid. tropicalis.

In Mus. Jekel, Parisiis.

57. (26.) *Paussus ruber*, Thunberg, Act. Holm. 1781, p. 170, n. 1; Afzelius, Trans. Linn. Soc. 4, p. 272; Westw. Trans. Linn. Soc. 16, p. 635; Trans. Ent. Soc. 2, p. 81, pl. 9, f. 5; Arc. Ent. 2, p. 183, pl. 91, f. 1. Cap. Bonæ Spei.

58. (27.) *Paussus cucullatus*, Westw. Proc. Linn. Soc. 19 June, 1849. Natal.
59. (28.) *Paussus cochlearius*, Westw. Trans. Ent. Soc. 2, p. 88, pl. 9, f. 6; Arc. Ent. 2, p. 183, pl. 91, f. 3. Cap. Bonæ Spei.
60. (29.) *Paussus Dohrnii*, West., n. sp.

P. prothorace bipartito, antennarum clava postice excavata; totus fusco-castaneus, elytris magis castaneis, setulis brevissimis luteis sparsim obsitus; capite convexo, antice punctato, emarginato, inter partem anticam oculorum spina conica obtusa armato, collo angusto lævi; antennarum clava subovata, utrinque convexa, tenuissime punctata, setosa, basi supra in spinam obtusam producto, apice parum angustato et recurvo, margine supero excavato, marginibus canalis parum sinuato-undatis, discoque prope marginem sulcis 4 obliquis; palpis maxillaribus subincrassatis; pronoti parte antica elevata lata punctata, lateribus rotundatis, medio marginis ejus postici parum impresso; parte postica e præcedenti canali profundo intus luteo-setoso separata, medio profunde impresso, lateribus elevatis glabris, utrinque spina brevi armato; elytris latis, subconvexis et suboblongis, punctatis, apice oblique truncato; pedibus sat gracilibus, tibiis subcylindricis, calcari tibiaram brevissimo; corpore infra concolore, tenuissime punctato.

Long. corp. lin. $3\frac{1}{2}$.

Habitat in Natalia Africæ Orientalis. In Mus. Dohrn.

61. (30.) *Paussus Chevrolatii*, Westw. n. sp.

P. prothorace bipartito, antennarum clava vix postice excavata, totus brunneo-rufus, fascia lata media elytrorum nigra, coriaceus subopacus; capite et pronoto punctis minimis elytrisque punctis majoribus setiferis; capite supra fere plano; fossulis duabus parvis rotundis inter partem anticam oculorum, margine antico clypei fere recto acuto, angulis anticis rotundatis; antennarum clava oblonga paullo curvata, dimidio basali depresso, apicali magis convexo, margine antico fere recto acuto, apicali rotundato, acuto, postico inter basin et medio sat profunde emarginato; puncto profundo, prope angulum subobtusum basalem externum, carinaque acuta e puncto versus medium disci extensa et emarginaturæ parallela; palpis maxillaribus articulo 2^{do} maximo fere rotundo, subdepresso, 3^{io} et 4^{to} parvis subæqualibus; palpis labialibus articulo basali minuto, 2^{do} rotundato, 3^{io} magno

ovali, apice suboblique truncato; prothorace oblongo, angulis lateralibus partis anticæ capite latioribus obtusis, parte postica capitis latitudine; fossula profunda media oblonga utrinque ad basin luteo-setosa, carinaque parva longitudinali utrinque notata; elytris capite multo latioribus, humeris rotundatis; pedibus gracilibus elongatis.

Long. corp. lin. 2.

Habitat in Abyssinia. In Mus. Chevrolat.

62. (31.) *Paussus Parrianus*, Westw. in Trans. Ent. Soc. 5, p. 29, pl. 2, f. 3. Cap. Bon. Spei.

63. (32.) *Paussus Germari*, Westw. n. sp.

P. prothorace bipartito, antennarum clava elongata subensata, canali tenuissimo longitudinali in margine supero (vel postico); supra testaceus, obscurus; elytris (basi excepto) nigris; totus granuloso-coriaceus; capite antice subquadrato, clypeo in medio emarginato, disci medio longitudinaliter late impresso, carinis duabus lateralibus elevatis, alteraque transversa postica, utrinque inter oculos tuberculo elevato oblongo-ovali punctoque postico connexa; antennarum clava valde compressa, sub-elongata, ensem brevem curvatam simulante, basi supra in spinam brevem producto, margine supero in canalem vix distinctum excavato; disco sublævi; palpis maxillaribus articulo 2^{do} maximo, valde dilatato, duobus apicalibus minutis subæqualibus; pronoti parte antica capite vix latiori; lateribus subangulatis, carina subacuta media transversa, in medio interrupta, ibique longitudinaliter impressa, biloba; parte postica angustiori e præcedente canali profundo transverso separata, lateribus in discum in tubercula dua angulata nigra nitida elevatis; medio fossula longitudinali centrali impresso; elytris oblongis, pronoto multo latioribus, sub lente granulatis subopacis nigris, basi obscure testaceis, singulo sulcis quinque longitudinalibus parum profundis, setulis minimis luteis obsitis; corpore infra rufopiceo, nitido; pedibus subelongatis, haud dilatatis, parum compressis, brevius setosis, tibiis ad apicem sensim paullo angustatis, calcari minuto armatis, piceis, tibiis tarsisque magis rufescentibus.

Long. corp. lin. 3.

Habitat in Natalia. In Mus. Dohrn.

64. (33.) *Paussus Schaumii*, Westw.

P. prothorace bipartito, antennarum clava elongata subensata, canali tenuissimo longitudinali marginis postici; fulvus, sub-

lævis, paullo nitidus, elytris nigris; capite antice angustiori, margine antico in medio emarginato, disco longitudinaliter impresso, punctis duobus profundis inter oculos; pone oculos in collum sensim angustato; antennis et palpis ut in *P. Germari*: pronoto capite latiori, parte antica e collo sensim latiori, lateribus obliquis rectis, disco elevato, in medio bilobo, parte postica præcedente latiori subquadrata glaberrima, e præcedenti sulcis duobus profundis obliquis luteo-setosis separata; lateribus in discum oblique elevatis, fossula centrali longitudinali parum profunda et postice abbreviata; elytris elongatis, fere parallelis, pronoti parte postica haud multo latioribus, humeris valde declivibus; nigris basi fulvis subnitidis, tenuissime punctatis et luteo-breviter setosis; corpore infra fulvo-castaneo nitido, pedibus ut in *P. Germari* formatis; podice glaberrimo, margine omni elevato.

Long. corp, lin. $2\frac{2}{3}$.

Habitat in Natalia. In Mus. Dohrn.

65. (34.) *Paussus Klugii*, Westw. Trans. Ent. Soc. 2, p. 85, pl. 9, f. 2; Arc. Ent. 2, p. 183, pl. 91, f. 4. Cap. Bon. Spei.
66. (35.) *Paussus Latreillii*, Westw. Arc. Ent. 2, p. 184, pl. 91, f. 5. Sierra Leona, Senegal.

Sectio B. Prothorax subcontinuus.

Subsectio a. Species Africanæ.

67. (36.) *Paussus sphærocerus*, Afzelius, Trans. Linn. Soc. 4, p. 270, pl. 22, f. 2—6; Sturm. Catal. Ins. Samml. pl. 4, f. 31; Westw. Trans. Linn. Soc. 16, pl. 33, f. 35; Arc. Ent. 2, p. 184, pl. 92, f. 3. Sierra Leona.
68. (37.) *Paussus armatus* (Dej.), Westw. Trans. Linn. Soc. 16, p. 645, pl. 33, f. 62—64; Trans. Ent. Soc. 2, p. 89; Arc. Ent. 2, p. 185, pl. 93, f. 1.
Paussus cornutus, Chevrolat in Guérin, Mag. Zool. Ins. pl. 49. Africa Tropic. Occid.
69. (38.) *Paussus cilipes*, Westw. Arc. Ent. 2, p. 185, pl. 93, f. 3. Sierra Leona.
70. (39.) *Paussus Æthiops*, Blanchard in Règne Animal, ed. Crochard, Ins. pl. 61, f. 8; Westw. Arc. Ent. 2, p. 186, pl. 93, f. 6. Nubia.
71. (40.) *Paussus verticalis*, Reiche in Append. Voy. Abyssinie de Galinier, p. 390, Zool. pl. 24, f. 5, 5a. Abyssinia.
72. (41.) *Paussus dentifrons* (Dej.), Westw. Trans. Linn. Soc. 16,

- p. 662, pl. 33, f. 68—70; Arc. Ent. 2, p. 186, pl. 93, f. 4. Senegal.
73. (42.) *Paussus curvicornis*, Chevrolat in Silberm. Rev. Ent. 4, p. 263; Guérin, Icon. Règne An. Ins. pl. 40, f. 8; Westw. Arc. Ent. 2, p. 187, pl. 93, f. 5.
Paussus cornutus, var. Chevrolat in Guérin, Mag. Zool. No. 49, fig. 1 a, 2, 2 a. Senegal.
74. (43.) *Paussus spinicoxis*, Westw. Proc. Linn. Soc. June 19, 1849. Natal.
75. (44.) *Paussus cultratus*, Westw. Proc. Linn. Soc. June 19, 1849. Natal.
76. (45.) *Paussus setosus*, Westw. Proc. Linn. Soc. June 19, 1849. Guinea.
77. (46.) *Paussus lævifrons* (Dej.), Westw. Trans. Linn. Soc. 16, p. 661, pl. 33, fig. 65—67; Arc. Ent. 2, p. 187, pl. 92, f. 4. Senegal.
78. (47.) *Paussus Shuckardii*, Westw. Arc. Ent. 2, p. 187, pl. 92, f. 5. Africa Austral.
79. (48.) *Paussus lineatus*, Thunberg, Act. Holm. 1781, p. 171, pl. 3, f. 4, 5; Fabricius, Syst. Eleuth. 2, 75; Westw. Trans. Linn. Soc. 16, p. 647; Arc. Ent. 2, p. 188, pl. 94, f. 1. Cap. Bon. Spei.
80. (49.) *Paussus affinis*, Westw. Trans. Linn. Soc. 16, p. 646, pl. 33, f. 36, 37; Arc. Ent. 2, p. 188, pl. 94, f. 2. — ?
81. (50.) *Paussus Favieri*, Léon Fairmaire in Ann. Soc. Ent. France, 2 ser. t. 10 (1852), p. 76, pl. 3, f. 4. Tangier.
- Subsect. b. Species Asiaticæ.
82. (51.) *Paussus cognatus*, Westw. Arc. Ent. 2, p. 189, pl. 94, f. 3. India Orient.
83. (52.) *Paussus Harseianus*, Westw. Proc. Linn. Soc. April 19, 1842; Boys in Journ. Asiatic. Soc. Bengal, N. S. No. 54, p. 422 (No. 31), tab. ann. f. 3; Westw. Arc. Ent. 2, p. 189, pl. 94, f. 4. Ind. Orient.
84. (53.) *Paussus Hardwickii*, Westw. Trans. Linn. Soc. 16, p. 649, pl. 33, fig. 39, 40; Arc. Ent. 2, p. 189, pl. 94, f. 5; Boys in Journ. Asiat. Soc. Bengal, N.S. No. 54, p. 434 (No. 8), and tab. ann. f. 8. Nepaul, Almorich.
85. (54.) *Paussus Saundersii*, Westw.; Arc. Ent. 2, p. 190, pl. 94, f. 6. India Orient.